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(54) STENT AND ITS MANUFACTURE

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(57) Abstract:

PROBLEM TO BE SOLVED: To facilitate the reconstruction of normal blood vessel wall tissue and improve the anti-thrombogenic property by covering the wall surface of a tubular member with a thin film flexible polymer film having a number of fine pores in a lumen internal implantation piece applied to the coronary arteries operation.

SOLUTION: A metallic stent body (tubular member) 10 has a diameter of 4 mm, a length of 2 mm and a thickness of 0.2 mm, for example, prior to extension, and when it is extended, the diameter is changed to 8 mm, for example. The whole circumference of the wall surface constituting such a stent body 10 is covered with a thin film segmented polyurethane polymer film 19. At this time, since the stent body 10 has a number of cavity parts, the stent body and the cavity part can be effectively covered with the polymer film 19. The polymer film 19 has pluralities of fine pores, and the fine pores are formed particularly into a diameter of 50-500  $\mu$ m by computer controlling excimer laser, etc.

